

Our Ref. No.: 42390P4214DC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Chunlin Liang

Serial No.: 10/632,578

Filed: July 31, 2003

For: A THERMAL CONDUCTING

TRENCH IN A SEMICONDUCTOR STRUCTURE AND METHOD FOR

FORMING THE SAME

Examiner: Thanh V. Pham

Art Group: 2823

RESPONSE TO OFFICE ACTION

Mail Stop Non-Fee Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Examiner:

In response to the Office Action dated March 24, 2004, Applicants respectfully request entry of the election set forth below and consideration of the remarks that follow.

KESLONSE TO RESTRICTION REQUIREMENT

Applicants elect Group 1, Claims 1-21, drawn to methods, classified in class 438, subclass 700 without traverse.

In addition, the Patent Office requests that the Applicants identify between two species of Group 1, the first species related to method of forming trench contact and the second species related to forming a transistor structure. The Patent Office states that claim 1 is generic to claim 8 only (e.g., and thus not generic to claim 14). In response, Applicants select the method of forming trench contact. Specifically, Applicants select the first species related to method of forming trench contact includes claims 1-4, and 6-12.

However, Applicants also traverse the species restriction and assert that claims 1-4, 6-12, and 14-21 is directed to filling a portion of a trench with a thermally conducting material, and patterning, depositing, or forming a contact or spacer portion over, to, or adjacent to a device structure, transistor structure, or feature thereof. Therefore, except for claims 5 and 13 which require forming a transistor structure, Applicants assert that claims 1-4, 6-12, and 14-21 are generic.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: April 22, 2004

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Los Angeles, California 90025

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Seventh Floor

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail with sufficient postage in an envelope addressed to: Mail Stop Non-Fee Amendments, Commissioner for Patents, P. O. Box 1450, Alexandria Virginia 22313-1450 on April 22, 2004.

Jean Svoloda

APR 2 8 2004 BY

Application No. 10/632,578 TRANSMITTAL FORM Filing Date July 31, 2003 (to be used for all correspondence after initial filing) First Named Inventor Chunlin Liang Art Unit 2823 Thanh V. Pham **Examiner Name** Total Number of Pages in This Submission 6 42P4214DC Attorney Docket Number

ENCLOSURES (check all that apply)									
Fee Transmittal F	orm	Drawing(s)	After Allowance Communication to Group						
Fee Attache	ed	Licensing-related Papers	Appeal of Appe	Communication to Board als and Interferences					
Amendment / Resp	ponse	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)						
After Final Affidavits/do	eclaration(s)	Petition to Convert a Provisional Application	Proprietary Information						
Express Abandonment Request		Power of Attorney, Revocation Change of Correspondence Address	Status Letter						
		Terminal Disclaimer		inclosure(s) identify below):					
Information Disclosure Statement		Request for Refund	Return 1	receipt postcard					
PTO/SB/08 Certified Copy of Priority Document(s)		CD, Number of CD(s)							
Response to Missing Parts/ Incomplete Application		Remarks							
Basic Filing Fee Declaration/POA		RESPONSE TO RESTRICTION REQUIREMENT							
Response to Missing Parts under 37 CFR 1.52 or 1.53									
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT									
Firm	Angelo J. Gaz, Reg. No. 45,907								
Individual name	BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP								
Signature Ann 7									
Date	Date April 22, 2004								
CERTIFICATE OF MAILING/TRANSMISSION									
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.									
Typed or printed name Jean Svoboda									
Signature	A	u Sholem 1	Date	April 22, 2004					



Complete if Known			
Application Number	10/632,578 July 31, 2003 Chunlin Liang		
Filing Date			
First Named Inventor			
Examiner Name	Thanh V. Pham		
Art Unit	2823		
Attorney Docket No.	42P4214DC		
-	Application Number Filing Date First Named Inventor Examiner Name Art Unit		

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
	3 ADDITIONAL FEES							
Check Credit card Money Other None	Laro	Large Entity Small Entity						
Deposit Account	Fee	Fee	Fee	Fee	<u>-</u>			
Deposit Account 02 2666	Code	(\$)	Code	(\$)	Fe	e Description		FeePaid
Account Number 02-2666	1051	130	2051	65	Surcharge - late filing	fee or oath		
Deposit	1052	50	2052	25	Surcharge - late provi cover sheet.	sional filing fee or		
Account Name Blakely, Sokoloff, Taylor & Zafman LLP	2053	130	2053	130	Non-English specificat	ion		<u> </u>
The Commissioner is authorized to: (check all that apply)	1812	2,520	1812	2,520	For filing a request for		nation	
Charge fee(s) indicated below Credit any overpayments	1804	920 *	1804	920	 Requesting publication 	n of SIR prior to		
Charge any additional fee(s) or underpayment of fees as required under 37		4 940 *		1 940		a of CID ofter		
CFR §§ 1.16, 1.17, 1.18 and 1.20.	1805	1,840 *	1805	1,840	 Requesting publication Examiner action 	n or SIK aner		
Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account	1251	110	2251	55	Extension for reply wi	thin first month		
FEE CALCULATION	1252	420	2252	210	Extension for reply wit	hin second month		
1. BASIC FILING FEE	1253	950	2253	475	Extension for reply with	thin third month		
Large Entity Small Entity	1254	1,480	2254	740	Extension for reply wi	thin fourth month		
Fee Fee Fee Fee Description FeePad Code (\$)	1255	1,210	2255	605	Extension for reply wi	thin fifth month		
	1404	330	2401	165	Notice of Appeal			
1001 770 2001 385 Utility filing fee 1002 340 2002 170 Design filing fee	1402	330	2402	165	Filing a brief in suppo	rt of an appeal		
1003 530 2003 265 Plant filing fee	1403	290	2403	145	Request for oral heari	ng		
1004 770 2004 385 Reissue filing fee	1451	1,510	2451	1,510	Petition to institute a p	oublic use proceedi	ng	
1005 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - una	avoidable		
SUBTOTAL (1) (\$)		1,330	2453	665	Petition to revive - uni	ntentional		
		1,330	2501	665	Utility issue fee (or re	issue)		
2. EXTRA CLAIM FEES Extra Fee from	1502	480	2502	240	Design issue fee			
Claims below FeePaid	1503	640	2503	320	Plant issue fee			
Independent 34 - 34 = 0 X 18.00 \$0.00	1460	130	2460	130	Petitions to the Comn	nissioner		
Clairins 5 5 0 X 86.00 - \$0.00	1807	50	1807	50	Prosessing fee under	• • •		
Multiple Dependent	1806	180	1806	180	Submission of Inform		tmt	
Large Entity Small Entity	8021	40	8021	40	Recording each pater property (times numb			
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	1809	770	1809	385	Filing a submission af	er final rejection		
1202 18 2202 9 Claims in excess of 20	10.5	,,,,	1005	000	(37 ČFR § 1.129(a))			
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	For each additional invexamined (37 CFR §			
1203 290 2203 145 Multiple Dependent claim, if not paid	4004	7770	~~~	205	Request for Continued		=\	
1204 86 2204 43 **Reissue independent claims over original patent	1801 1802	770 900	2801 1802	385 900	Request for expedited		-,	
1205 18 2206 9 **Reissue claims in excess of 20 and over	1842	₩	1002	900	of a design application	CACATIA ESCOT		
original patent	Other f	Other fee (specify)						
SUBTOTAL (2) (\$) 0.00								
**or number previously paid, if greater, For Reissues, see below	* Reduce	ed by Basic F	iting Fee	Paid	;	SUBTOTAL (3)	(\$)	
SUBMITTED BY Complete (if applicable)								
		Registratio		Т	45.005			
Name (Print/Type) Angelo J. Gaz		(Attorney/Agent)			45,907	Telephone	(310) 20	1-3600

Based on PTO/SB/17 (10-03) as modified by Blakety, Solokoff, Taylor & Zafmar (wtr) 02/10/2004. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 223/3-1450